

# Gates asks students to tackle world's problems

## *Disease and education among biggest challenges*

By **Jeff Guo**  
and **Rob McQueen**  
NEWS EDITORS

"Are the brightest minds working on the most important problems?" Bill Gates asked an audience of students and faculty in Kresge on Wednesday.

The Microsoft co-founder, now a full-time philanthropist, visited MIT to talk about pressing problems like health care in the developing world and the U.S. education system — "important" problems, he said in his speech, that affect billions of people, yet fail to attract the attention of talented people who could make a difference.

"We have lots of talent that could be shifted, at least to some degree, from sports, entertainment, investing," he said. "Even in the area of innovation...a lot of that focuses on the needs of the rich."

Gates spoke highly of MIT's OpenCourseWare project, which he praised for inspiring many other colleges to put their course notes and lecture videos online. "MIT's absolutely at the forefront," he said.

He added that there is still plenty of work to be done, like making online learning more interactive and aggregating the best lectures, which are right now scattered across the internet.

Before the speech, Gates attended a round-table discussion with professors, and spoke with students who presented their projects on global development.

The visit was part of a cross-country college tour, starting with Stanford and Berkeley on Monday, the University of Chicago on Tuesday, and finishing with MIT and Harvard on Wednesday.

It was the first time that Gates has spoken to college students since he left Microsoft to focus on philanthropy.

### **Tackling the world's toughest problems**

During his talk, titled "Giving Back: Finding the Best Way to Make A Difference," Gates asked students to consider the world's most serious challenges: improving the lives of the poorest; improving education, health, nutrition.

"It always stuns me how few bright minds have worked on those things, how little effort and energy and investigation there is on those things," he said.

He referred to his 30-plus year career at Microsoft as something he "fell into," without necessarily thinking through the social impact of



NICHOLAS CHORNAY—THE TECH

**Philanthropist, Microsoft co-founder, and Harvard dropout Bill Gates** speaks to students in Kresge Auditorium on Wednesday about global health, poverty, and education. He encouraged students to apply their talents toward tackling these issues. After the speech, Gates sat down for an interview with *The Tech*. The transcript is below. For the video, see <http://tech.mit.edu/V130/N21/gates/interview.html>.

## *In interview, Gates describes philanthropic journey*

By **Jeff Guo**  
EDITOR IN CHIEF

After he spoke at Kresge Auditorium, Bill Gates sat down with *The Tech* to talk more about his college tour, his philanthropy, and the philosophy behind it.

As an ardent supporter of technology, Gates described his foundation as an innovation engine that takes risks and

funds research, in addition to offering direct aid to the needy.

Though some have criticized the Gates Foundation for investing its endowment in corporate polluters that harm the health of the people it seeks to aid, Gates said that it is the foundation's positive actions that have real effect, not its investment practices.

*The Tech:* So you've been on this

three-day cross-country college tour, you spoke at Berkeley, Chicago, and you're wrapping up this afternoon at Harvard. Why are you doing this? What is the message you're trying to get out?

*Bill Gates:* Well it's an opportunity for me to learn. I'm sitting down with scientist at each of the universities —

**Gates interview, Page 19**

# MIT runs in marathon

## *Physics graduate student places 47th*



By **Jiyeon Baek**  
STAFF REPORTER

Running in line with the 114 year-old Patriots' Day tradition, pools of runners filled the intersection of Grove St. and West Main in Hopkinton this past Monday, tightening their laces and assuming their positions, to commence this year's annual 26.2 mile Boston Marathon.

According to the organizers, this year's marathon had 26,790 entries, several of which were MIT students, alumni, and community members.

Among the MIT entries were Course VIII (Physics) Ph.D. candidate, Jared J. Markowitz G, Course XVI (Aerospace Engineering) alum Eric Khatchadourian '06, Assistant Dean for Student Activities Jed Wartman, and numerous other students.

Markowitz finished 47th overall and 42nd among the men, crossing the finishing line in only 2:27:16, ranking among the prestigious top fifty.

Khatchadourian finished 200th overall in the race, and Wartman ran the marathon to help raise funds for the Leukemia & Lymphoma Society.

In the men's category, Robert Kiprono Cheruiyot of Kenya set a new course record for the marathon with his time of 2:05:52 — about a minute

ERNESTO MARTINEZ-VILLALPANDO  
**Jared M. Markowitz G**, a graduate student in the Department of Physics, finished **47th place** at the Boston Marathon on Monday. His official time was **2:27:16**.

**Marathon, Page 22**

# Reed is new chairman

## *Former Citigroup CEO heads Corp.*

By **Liz Tsai**  
STAFF REPORTER

John S. Reed '61, SM '65 was recently nominated to chair of the MIT Corporation by the Executive Committee. Pending his election to the Corporation on June 4, Reed will succeed Dana G. Mead PhD '67, who is stepping down as Corporation chair at the end of June. Reed — retired CEO and chairman of Citigroup and former chairman of the New York Stock Exchange — earned joint S.B. and B.A. degrees from MIT and Washington & Jefferson College. He then served as an officer in the U.S. Army

Corps of Engineers for two years and returned to MIT to earn a master's degree from the Sloan School of Management.

As the MIT Corporation Chair, Reed will serve as a member of the Executive Committee and Investment Management Company Board, chair the Corporation Development Committee, and conduct all Corporation meetings.

Reed also participated in the governance of numerous corporate and academic institutions including Philip Morris, United Technologies, Monsanto, the Center for Advanced Study in the Behavioral Sciences, the

Russell Sage Foundation, and the Spencer Foundation. He is currently a director of MDRC (a nonprofit organization for education and social policy), a fellow of the American Academy of Arts and Sciences and the American Philosophical Society, and is an overseer of the Boston Symphony Orchestra.

As a life member of the Corporation, Reed currently serves on the visiting committees for the Engineering Systems Division and Sponsored Research and chairs the Corporation Development Committee and Mem-

**Reed, Page 18**

## **IN SHORT**

**Spring Weekend concert** featuring N.E.R.D. and Super Mash Bros will be happening from 7–9 p.m. in the Johnson Athletic Center today.

The Cambridge Science Festival will be

hosted by the MIT Museum this Saturday. For event details, visit <http://www.cambridgesciencefestival.org>

**Send news information and tips to [news@tech.mit.edu](mailto:news@tech.mit.edu).**

## **WHY MENTORING MATTERS**

Learning from more experienced leaders will help you develop your own skills. **OPN, p. 9**

## **COUNTRIES DON'T COMPETE**

It's a common fallacy, but trade is not a game, nor is it a weapon. **OPN, p. 4**

## **THE SECRET OF SCENT**

An interview with Luca Turin, creator of the vibration theory of scent. **OPN, p. 5**



## **CUTE ANIMATION, CUTE DRAGONS!**

Sure the plot is formulaic, but the animation for *How to Train Your Dragon* will charm you. **ARTS, p. 7**

## **MORE THAN BORK BORK BORK**

*The Girl with the Dragon Tattoo* is a dark, mesmerizing mystery based on the Swedish novel. **ARTS, p. 6**

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## CORRECTIONS

A picture caption describing the MIT Sport Taekwondo team's demonstration on page 25 of the April 9 issue misidentified the kicker as a prospective freshman. The kicker was Christopher M. Wil-

liams, a current graduate student.

An article on Friday, April 9 and a table on Friday, April 16 about APO's Institute Screw award gave the wrong candidate for 6.041. He is Professor Vivek K. Goyal, not Vineet Goyal. The table caption also mischaracterized the award itself. The Big Screw is an object awarded to the winner, not the winner himself.

## LETTERS

### Still interested in romance

In response to M.'s article in the April 13 issue of *The Tech*, "Frolicking on the first date": Call me old fashioned, but I'm not interested in sex on the first date. Or even the second. Not even the third. I may take it as a complement that you want to sleep with me that quickly, but I will take it as an even bigger complement if we get to know each other better first.

Regardless of how our society has come to view sex, I think that we can agree that a more intimate act does not

exist, and I want it to mean something when I have sex with you. It is the strongest message I can send, so I want it to be very clear that I'm telling you that I love you with every fiber of my being, that I love you more than I've loved anyone else before you, and that I am committed to you. I want this message to reach you loud and clear. I hope this would be your message to me, too.

But how can either of us be sure that this is what we're saying if we have barely gotten to know each other? Even if we've really hit it off on that first date and have become new believers in love at first sight, I don't want our decision to have sex to be based on mere physical attraction. When I'm having sex with you,

I don't want to just be thinking about how incredible our bodies feel together or how beautiful you are (both of which I'm sure will be going through my mind), but I want to be thinking about all of the awesome experiences we've already had together, how we've already shown our love through countless acts of affection, service, sacrifice, and loyalty.

I don't want to feel that sex is the source of our love or that it is creating that love, but rather that it is the perfect and ultimate expression of a love that already exists between us. So please don't call me a prude if I politely refuse your advances on the first date. I'm just looking for a little romance first.

— Joshua C. Hester, Class of 2011

# The real danger of Chinese “competition” *Populist and protectionist rhetoric ignore the real issues of trade*

By Keith Yost

STAFF COLUMNIST

It has been common for economists to tolerate the blather of competitiveness, not only because there are practical difficulties with trying to educate non-economists on comparative advantage and the mechanics of free markets, but also because it is commonly believed that such rhetoric can be harnessed in support of good policies. If I am worried about the large negative externalities posed by global warming, and believe it is in the U.S. or the world's best interest for America to invest in public energy research, then what harm is there if others believe that such expenditures are necessary to “win” against China?

To quote Paul Krugman: “A government wedded to the ideology of competitiveness is as unlikely to make good economic policy as a government committed to creationism is to make good science policy, even in areas that have no direct relationship to the theory of evolution.” Adherents to the competitiveness doctrine are suffering from a fundamental misunderstanding of economics. It is inevitable that there will come a day when flawed thinking comes home to roost, and when it does, it is likely that more will suffer than just trade policy.

For now, let us consider the most likely victim of the competitiveness doctrine, free trade, and to illustrate the threat, let us take the production of solar panels as an example. China, due to the labor intensity of cell and module assemblage, produces nearly all of the world's commercial solar panels. Clueless pundits such as Thomas Friedman claim that this is evidence that the U.S. is “losing” in some great race to a green economy. The Chinese, we are told, are the pinnacle of savvy — while we blunder about with our boneheaded Detroit automakers, those crafty Asians are eating our lunch with their green manufacturing. Unless we get serious about investing in green energy, our opponents will gain an everlasting edge and relegate our children to serfdom.

Thus is the argument for a range of green policies — increased research spending, production subsidies, feed-in-tariffs, and so on. Perhaps these policies make sense on their own — we could construct some argument (maybe not a convincing one) that such expenditures will raise our productivity or mitigate environmental damage or some such. But justifying these moves on the basis of competitiveness is illogical. The Chinese do not install many solar panels of their own (it turns out that

## When flawed thinking comes home to roost, it is likely that more will suffer than just trade policy.

they are an incredibly expensive and impractical method of generating electricity). Instead, the only reason they have built a solar cell industry is because the United States and Europe have created a demand for solar cells through massive subsidies. Were we to end our subsidies, the Chinese workshops would go back to making something else, like plastic toys and electric irons — mundane items that wouldn't get so many pundits worked up.

If it is so important that we not let our rivals beat us in whatever competition it is presumed we are playing, then we have two realistic options in the face of this solar panel evidence. One is to cut our subsidies for green power until we deem that American industry is strong enough to duke it out with a cheap labor China. But if green investment really does make sense, this would mean sacrificing a good policy to avoid some imagined bad outcome. The other alternative is to treat American solar panel manufacturers as an infant industry in need of protectionist trade policy — we might continue to offer subsidies, but only American-manufactured panels could receive them, or we would handicap our ri-

vals with large import tariffs.

The competitiveness advocates claim that they want us to win the trade game, not abandon it, but suppose it becomes obvious that we cannot “win”? Accepting the competitiveness rhetoric, despite whatever the pronouncements of support for free trade that come with it, is to invite protectionists into the debate. As the Obama administration shifts to populist mode, it is likely that it will be rewarded for preaching the competitiveness doctrine. It is much easier to tell a struggling working class “they took our jobs” than to try and explain that economic performance is a nuanced problem without simple fixes. The rhetoric will also win Obama many friends among the CEO's at the Business Roundtable — businessmen are comforted by the notion that national economies operate on the same principles as corporations, it lets them believe that their life experience entitles them to debate international economics on the same plane as actual economists. But for those of us who understand comparative advantage, it is time to stand

## The Chinese are not stealing your job, and our obsession with competitiveness is both dangerous and wrong.

up and put Washington on notice. At best, the president playing with fire. At worst, he actually believes what he is reading from his teleprompter.

There could not be a worse time for us to substitute sound economic thinking with voodoo recipes. So let's start telling the truth: American living standards are determined almost wholly by American productivity, the Chinese are not stealing your job, and our obsession with competitiveness is both dangerous and wrong.

*This is the last in a three-part series by Keith Yost on trade myths.*

## OPINION POLICY

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# *Dragon Tattoo* brings back the art of moviemaking

A high-contrast, black and white portrait of a young man. He has dark, straight hair that falls over his forehead, partially obscuring his eyes. He is looking directly at the camera with a serious expression. He is wearing a dark turtleneck sweater under a dark jacket. He has a small hoop nose ring in his left nostril and several piercings in both ears, including a large hoop earring in his left ear. The lighting is dramatic, coming from the side, creating deep shadows on one side of his face and highlighting the other. The background is a plain, light-colored wall.

**Swede Noomi Rapace gives a stunning performance** as computer hacker Lisbeth Salander in the Swedish film *The Girl with the Dragon Tattoo*.

When I walked into the theater to see *The Girl with the Dragon Tattoo*, all I knew about the film was that it was Swedish and that its general buzz was very positive. In retrospect, I'm convinced that my initial lack of exposure was a good thing; a two-and-a-half hour Swedish mystery film based on a book whose title translates literally to *Men who Hate Women* and whose poster highlights a creepy looking Goth girl is not exactly my idea of a fun Fridav night.

But do not be misled: this is a fantastic film. The plot is unceasingly captivating, the characters are deep and played by outstanding actors, and you will find yourself so emotionally drawn into the film that it will be hard to get out of your head.

The movie begins with the middle aged, well known investigative reporter Mikael Blomkvist being charged with fraud and forced out of his job as a writer for the magazine *Millenium*. He has resolved to carry out his sentence in peace, when he receives a call from the very old and wealthy Henrik Vanger, who hires him to look into the forty-year-old disappearance of his beloved niece, Harriet Vanger. Although her

**You will find yourself so emotionally drawn into the film that it will be hard to get it out of your head.**

On all counts the movie is intriguing, and especially so in the complexities of the characters. Mikael (Michael Nyqvist) is a wronged yet firmly compassionate man whose intense curiosity guides him in his investigative pursuits; Henrik (Sven-Bertil Taube) is a powerful and aged man whose longing to find out what happened to his niece remains unabated by the passage of decades; and the many members of the Vanger family each claim in their own

right a piece of the audience's suspicion. But most enthralling is Lisbeth — played skillfully by Noomi Rapace — whose pitch-black hair, spiked collar, and many piercings hide a troubled and potentially unstable soul. The film permits the audience time to get to know her life in graphic detail, but although we see what she suffers and how she reacts to the oftentimes shocking situations of her past and present, she is the type of girl you can never truly know. Watching her relationship develop with Mikael is nearly as interesting as the trail of murder and deception that they uncover throughout the film.

The overall pace of the movie is slow and steady — in the best way possible. Ample time is permitted to get to know the characters, settings, and every known detail of Harriet's disappearance, so that each new development in the story — whether it be in the central investigation or in the life of one of the characters — affects someone you've gotten to know in a significant way. While most films adaptations of novels seem riddled with plot holes, the care and delicacy with which this film was put together lets it flow naturally and stand completely on its own. You don't leave the theater wishing the director had done

**Swedish, with English subtitles**

something differently or that the editors had cut out that one scene — every scene is both necessary and interesting, and every action meaningful

A film that deals with such heavy subject matter as death, torture, abuse, mental instability, and downright hatred deserves to be handled with careful talent, and *Girl with the Dragon Tattoo* doesn't disappoint. The result is a clever and breathtaking film that is an absolute must-see for anyone who appreciates the art of filmmaking.

# Muffins and mochi, turkey and tofu

Three things from recent memory come to mind when I think of the phrase “pleasant surprise”: Modern Family, for restoring my faith in the family sitcom; the Saferide tracking screen outside W20, for preserving our sanity; and Dado Tea, for being like no other café in the Greater Boston area.

Dado Tea is located between Central and Harvard Square, in an often ignored section of Mass Ave where the number 1 bus seems to fly past (there's second location next to Fire-Ice in Harvard Square). Without the charming reputation of Harvard Square or the trendy feel of Newbury Street, I didn't know what to expect when I first walked into Dado Tea, a hardly noticeable shop on the ground floor of a plain-looking office building. I walked up to the counter and asked the cashier what the most popular drink and food were. It didn't take me long to realize that Dado Tea is Korean-owned after she responded with "peach tea boba and bibimbap."

She had me at “boba,” but she walked me through the whole menu anyway, which consists of more traditional coffee shop items in addition to the Korean specialties, from salads and sandwiches to tea and coffee. Decadently frosted cupcakes, fudgy brownies, and red bean mochi tempted me from behind the glass case, but I saved room (and money) for my bibimbap with tofu, which cost a steep \$12.

To be fair, the bibimbap was large. It was also quite different from traditional bibimbap and more like a salad. Served over mesclun mix and topped with multigrain sticky rice, bean sprouts, carrot and cucumber slices, and shiitake mushrooms alongside a giant bottle of spicy

gochujang hot pepper sauce, Dado Tea's bibimbap was a health-conscious yuppie version of the real deal. But I still found it fresh and delicious, a welcomed change from the omnipresent café bagel-wich. The peach tea boba was sweet, but not enough to offend your dentist. Unlike other boba shops that use concentrates and powders, Dado brews their own loose leaf teas. As fun as it is to watch your plastic cup get heat-sealed at those other places, drinking bubble tea in a glass is infinitely more refreshing. The only downside was having to spoon out the tapioca pearls, since they didn't seem to have any fat straws.

The whole storefront is covered in windows, letting in a lot of sunlight in the front seating area. I thought it might be fun to people-watch, but not many people walk by this part of Mass Ave. If you prefer a cooler, darker, more intimate setting, sit in the back area, where there are more tables for two. I was pleasantly surprised to find out that Dado Tea has free wireless internet, and I just had to ask the staff for the password. Soft classical music played

**Travel time from 77 Mass Ave: 10 minutes by No. 1 bus**

in the background, and most customers (who seemed to be either nearby office workers or Central Square yogis) ordered to-go, making Dado Tea a good study spot with few distractions.

The only reason why I'm not rushing to move into Dado Tea is the price. My total meal cost nearly \$16, a bit too expensive to make into a regular habit. At most, Dado Tea will become a stop for when I'm craving some Asian snacks (did I mention they also sell boxes of Pocky?) and in need of a quiet place to hit the books. On second thought, that might end up being more often than I think.



## CONCERT REVIEW

# Francophile!

# The Oriana Consort performs music from France

**By Sudeep Agarwala**

*STAFF WRITER*

Of the languages that are most frequently performed in the Western canon (Latin, Italian, French, German and sometimes Russian and Spanish), French is most often eschewed, most usually because of the difficulty in its diction. At least in English speaking countries, it seems there are as many schools of pronunciation as there are people willing to subscribe to them. And this is in modern French; how many different ways to pronounce Medieval French? franco-Latin? Least of all to mention the difficulties of twentieth-century French music which, after the daring harmonic advancements of Claude Debussy and Francis Poulenc, became some unholy amalgam of jazz imbued with traditional choral forms.

All this is to say that Oriana Consort's Sunday afternoon performance was more than daring in its repertoire and choice of performance practice. The art of French chanson was alive and well; Debussy's *Trois Chansons de Charles d'Orleans* was paired with Ravel's *Trois Chansons pour choeur mixte*. The two fared well in the ensemble's hands. Debussy's work, in particular presents significant challenges in its harrowing part-song. Although tuning was bit of an issue, the ensemble is to be commended in its interpretation and presentation of the three difficult works. Laura Betinis, the alto soloist of the second song in the work provided a particularly rich tone with a flexible line, and small ensemble work in the final song provided dramatic splashes of color to a stirring portrait of winter.

The Debussy songs were in sharp contrast to the comparatively rustic Ravel songs. Whereas Debussy's work was cosmopolitan,

Ravel's were somehow more intimate in Oriana's performance. *Nicolette*, first the in the series, was imbued with crisp diction and expressive choral colors, painting a subtly nuanced retelling of the ballade. *Trois beaux oiseaux du Paradis* and *Ronde* were equally well-conceived; the former, a well-balanced nostalgic, the latter, a vibrant, brightly colored warning to little children about the monsters that dwell in the forest.

**[The] performance was more than daring in its repertoire and choice of performance practice.**

*Motets* by Francis Poulenc and Maurice Duruflé provided a stunning counterpoint to the secular chanson. Whereas Debussy and Ravel's works reveled in the vibrancy of text-painting and part-writing, Duruflé's work seemed to hail from an older universe, one replete with plainsong and Gregorian chant. This is not to say that this music is any less difficult or was performed with any less detail. A strong bass line underpinned much of the intricate polyphony in the top voices. Although the newest of all the pieces on Sunday's concert, Duruflé's work is written with a much older conception than any of the others. His four *Motets sur des thèmes grégoriens* were presented in this light, while maintaining a flexible, moving line. Francis Poulenc's works are almost diametrically opposed (rich harmonies fall in stark contrast with Duruflé's spare chant-like lines); much can

also be said about those works. Two works from the *Quatre motets pour un temps de pénitence* (*Tristis est anima mea* and *Vinea mea electa*) and one from *Quatre prières de Saint François d'Assise* (*Seigneur, je vous en prie*) were presented in a french-pronunciation of Latin, whose diction shaped melodic lines more comfortably in Poulenc's works. A harmonically challenging set of works, *Oriana* shaped Poulenc's lines with resounding authority. All three pieces were intimately constructed to suit Poulenc's vision of the pieces. Small-ensemble work in *Seigneur, je vous en prie*, painted the work in resounding, deeply satisfying sound, while whole ensemble work in *Tristis est anima mea* and *Vinea mea electa* presented a solid performance of the work, technically well-advised in Poulenc's tone world.

The final great contrast of Sunday's concert resided in the two masses. Brummel's *Requiem* (abridged for the sake of programming) began the concert, launching the audience into a spare sixteenth century sound world that was riddled with rich contrast: the *Introit*, for example, showed Brummel's facility in incorporating chant with complex polyphonic and homophonic music. Other movements, such as the *Kyrie*, experimented with harmonic shifts that wouldn't be explored for more than three hundred years afterwards.

It was sad to see Brummel's florid and intriguing work suffer for the sake of Fauré's nineteenth century work. While Brummel's work is supple and lively, Fauré's work, in contrast, seemed less cohesive. Originally scored orchestra and choir, Sunday's performance replaced the orchestra with organist Balint Karosi. Both ensemble and orchestra were well informed of Fauré's gargantuan

# Oriana Consort

**Walter Chapin, conductor**

# Harvard-Epworth United Methodist Church

**April 11, 2010**

work. However, it is unclear how appropriate the orchestral timbres were represented in the stops of the Hutchings organ Harvard-Epworth church. Balance with the brass stops, combined with awkward page at crucial points in the movements often seemed ungainly in the choral context. However, significant work was evident in the ensemble work of the *Requiem*. In particular, Jennifer Webb's well-rounded, rich sound provided a refreshingly new sound for the *Pie Jesu* movement (originally scored for boy-solo, but well suited for Webb's more mature re-working). Balance between choir and soloist in the *Libera me* movement was well-constructed; baritone David Carder's met with *Oriana Consort's* significant choral forces on an even playing field, compromising neither soloist nor choir in technique.

A nuanced and inspired performance, the *Oriana Consort's* performance Sunday afternoon summarized nearly five-hundred years of some of the more difficult music in the Western canon: a testament to the ensemble's ability, discipline and dedication to their work. Ample program notes provided a detailed guide throughout the entire program. Although this was the final concert of *Oriana's* season, the ensemble resumes its season in December 2010.

## MOVIE REVIEW

# Everyone should have a pet dragon

*How to Train Your Dragon* has a formulaic plot, but is redeemed by its action-filled footage



COURTESY OF PARAMOUNT PICTURES

**Your typical hero story,** but with cuter characters.

**By Linlin Huang**

STAFF WRITER

Dreamworks has finally taken its stance against Pixar in animated films. *How to Train Your Dragon* took the top spot at the box office on its debut weekend on March 26, and has grossed over \$158,251,066 since then. Like your usual fairy tales, *How to Train Your Dragon* has the formulaic plot of an unlikely hero saving the entire city from probable destruction and finally getting the girl of his dreams.

The script follows Hiccup Horrendous Haddock III, the brainy son of a not-so-brainy Viking chief. Despite his reputation as a constant letdown, Hiccup dreams of becoming a laudable dragon killer until he almost kills a Nightfury, a rare dragon be-

lieved to be the most formidable one that has never been documented. A slave to his curiosity, Hiccup seeks out his unfinished kill and, inevitably, they become friends. Hiccup and his pet dragon, Toothless, seek out adventures in the sky while Hiccup adopts various engineering designs to repair Toothless's tail. Meanwhile, Hiccup's father has enrolled him in a dragon-slaying training camp. Due to his new friendship with Toothless, Hiccup has developed an uncanny ability to tame dragons.

The mutualistic relationship between Hiccup and Toothless is somewhat complicated by the town's need to slay dragons. Eventually, their friendship is revealed, and Hiccup's reputation is set for destruction. At the same time, a hive for dragons has been discovered and Hiccup's father Stoick the

Vast has set out to eliminate the hive, taking Toothless with him. Determined to rescue his dragon, Hiccup gathers his friends Snotlout, Fishlegs, Ruffnut, Guffnut, and Astrid, to help him in his quest.

Though the plot is somewhat mundane, the cinematic quality is absolutely exquisite. The animation in *How to Train Your Dragon* is an improvement on the visually dramatic scenery from *Avatar* in 3D; it allows audiences, young and old, to experience the exhilarating feeling of riding a dragon through many realistic fly scenes. In fact, *How to Train Your Dragon* is cinematically equivalent to *Avatar* minus the bad language. It contains exciting action-filled footages and has personality-enriched voice actors to make the movie both compelling and entertaining. If you were to see one movie in the-

★★★★★

# How to Train Your Dragon

**Directed by Dean DeBlois  
and Chris Sanders**

**Voiced by Jay Baruchel, Gerard Butler, Craig Ferguson**

**Rated PG**

## Dreamworks Animation

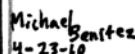
aters this year, make sure it is *How to Train Your Dragon*; you will not be disappointed.

by Michael Ciuffo

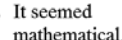


STEALMYCOMIC.COM

by Michael Benitez



## by Letitia Li



# Crossword Puzzle

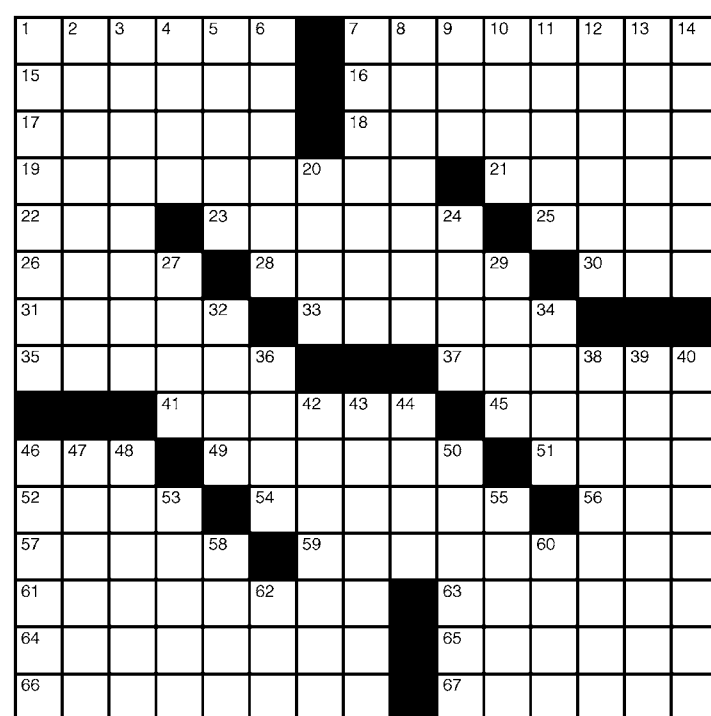
Solution, page 15

## ACROSS

- 52 Cutting remark  
54 Ate the evening meal  
56 \_\_ Jose  
57 Honker  
59 Crackling  
61 Strip  
63 Exact satisfaction for  
64 Reworks old material  
65 Almost a ringer  
66 Wardrobe assistants  
67 Time wasters

**DOWN**

- 12 Continue to exist  
13 Greatly  
14 Sonnet part  
20 Small Celebes buffalo  
24 Scot of a famous case  
27 Overplay the TLC  
29 Sliding ride  
32 Unctuous  
34 Primary  
36 Soccer pair?  
38 City on Lake Geneva  
39 Imperil  
40 Types in data, again  
42 Record of an expense  
43 Female ruler  
44 Scruff  
46 Laughably foolish  
47 Bearing  
48 Medicinal lozenge  
50 Katmandu language  
53 Gaucho's devices  
55 Plunged downward  
58 Sleep restlessly  
60 Bluish green  
62 Definite article



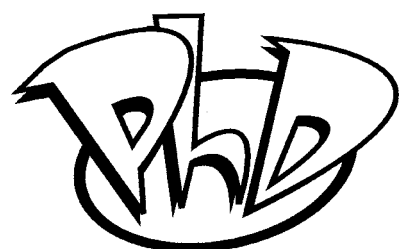
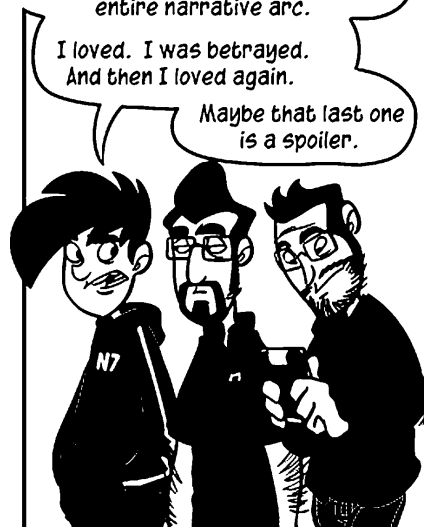




by Jerry Holkins  
and Mike Krahulik

## Purgatory

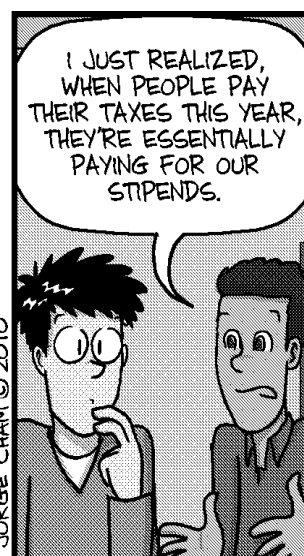
In the same amount of time it's taken me to get bored of Final Fantasy, I experienced Uncharted 2's entire narrative arc.



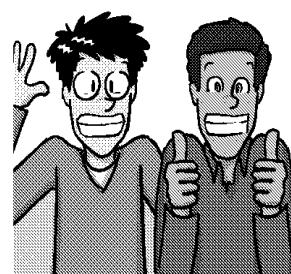
# PILED HIGHER AND DEEPER



by Jorge Cham



# YOUR TAX DOLLARS AT WORK.



WWW.PHDCOMICS.COM

# Sudoku

Solution, page 21

4			7			6		
	7	1		4	6	3		
		6				4		
	3	4			5		7	
	8						3	
	1		2			8	6	
		8				7		
		3	8	1		2	4	
		2			4			9

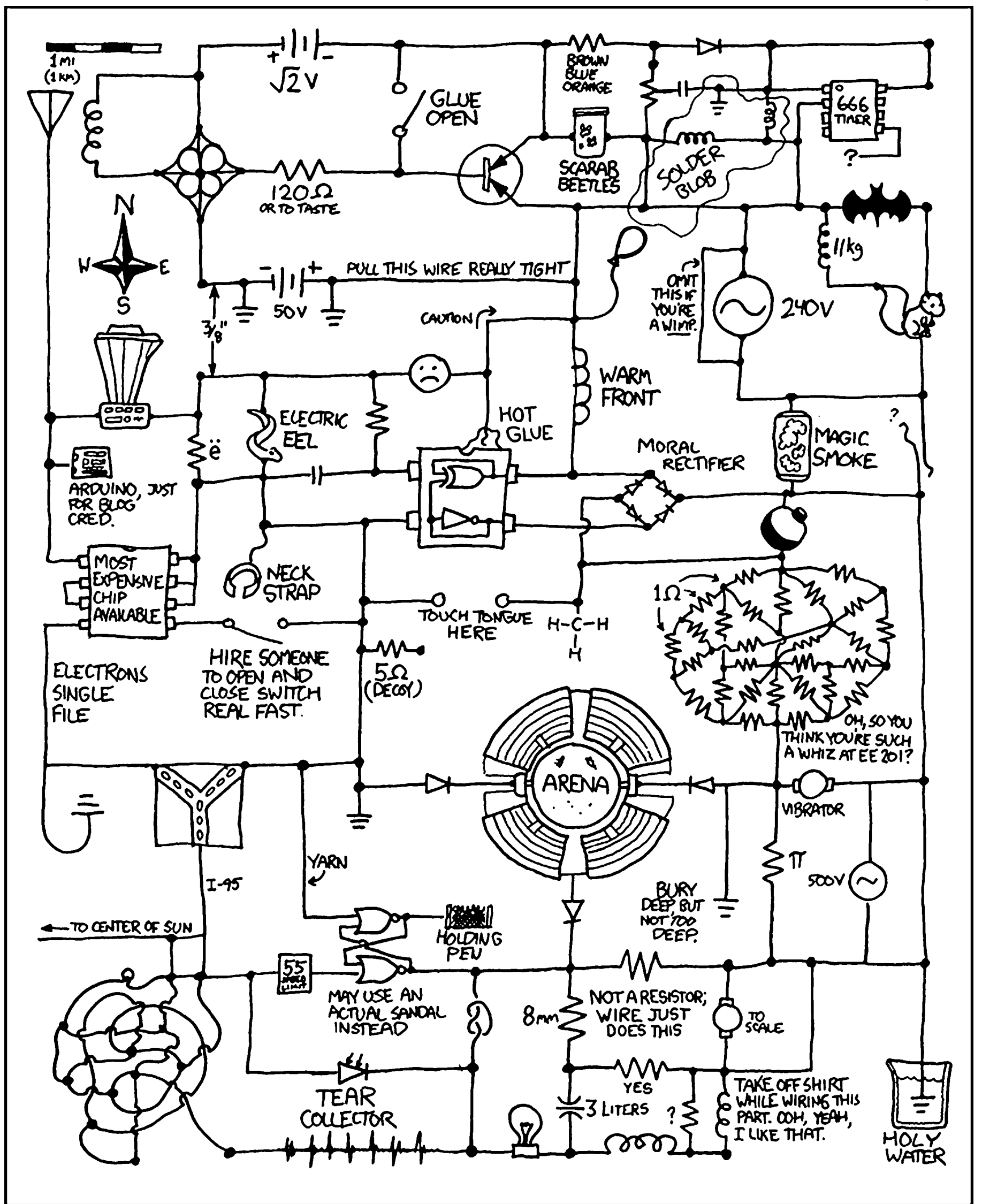
Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

# Kenken

Solution, page 21

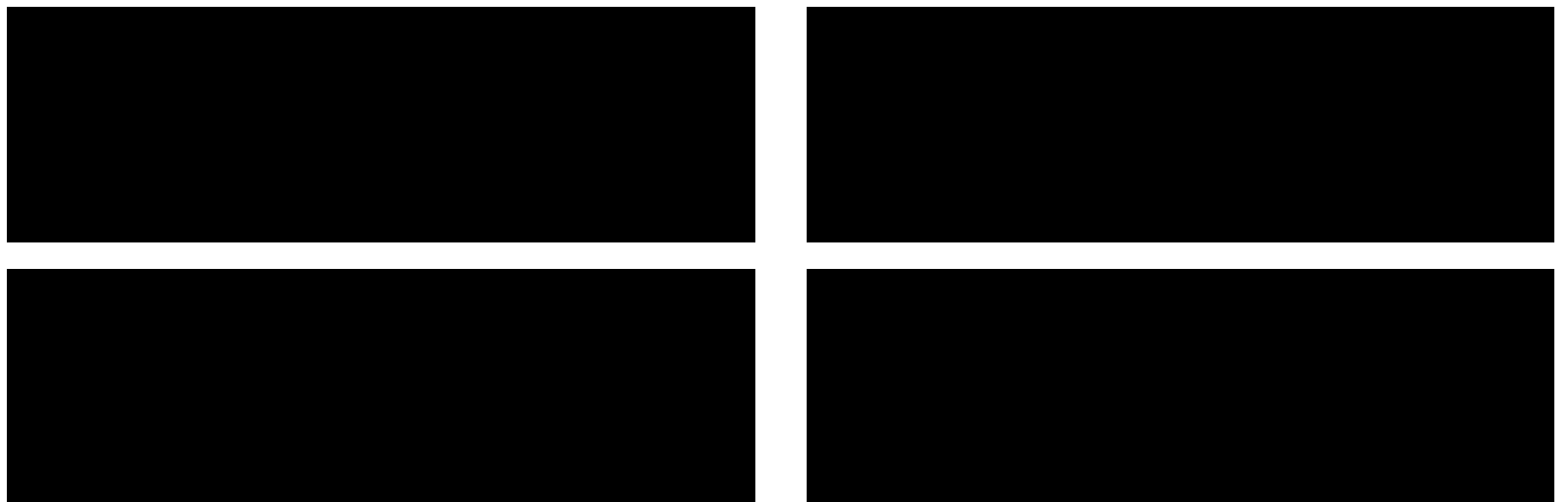
11+	10×		3÷		12+
		3÷			
1—	14+		40×		5—
		3—	5—		
6+	2÷			15+	6×
		3			

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1 through 6. Follow the mathematical operations for each box.



I just caught myself idly trying to work out what that resistor mass would actually be, and realized I had self-nerd-sniped.

# Dilbert by Scott Adams



MIT CHINESE ENSEMBLE

麻省理工華樂團

# SPRING CONCERT

Free admission

Refreshments  
served

Sunday, 25 April 2010 3:00 -4:30 PM  
20 Chimneys, Student Center 3rd floor







# FORTTRAN

**Band Members:**  
Harold Cooper: guitar, accordion  
Carrie McDonough: vocals, guitar  
Okie Jon Williams: drums

**Website**  
[www.myspace.com/123fortran](http://www.myspace.com/123fortran)

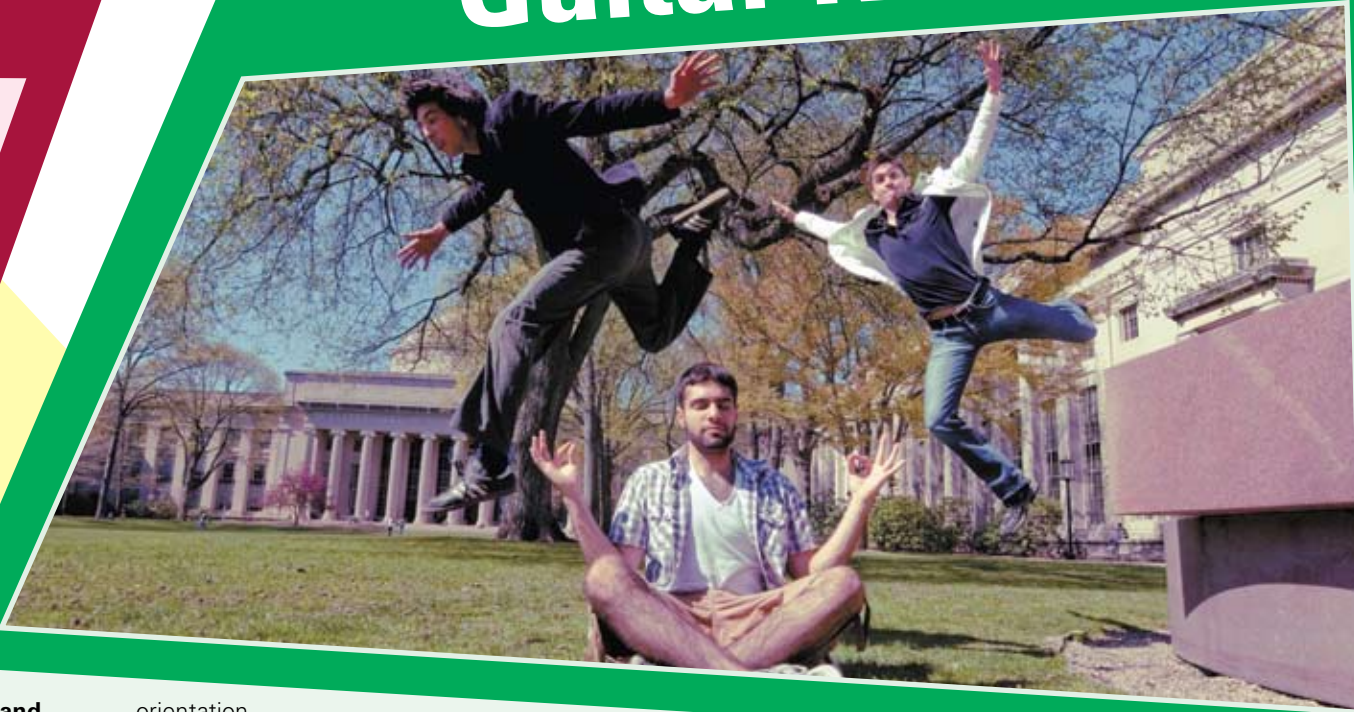
**Where does the band practice?**  
A private location.

**How and when did FORTTRAN get started?**  
We started as The Carrie Okie Band, and then the band members got sick of that name and changed it to the name of a programming language. We considered every programming language ever invented and decided to go with the one that made the best band name.

**Band's influences?**  
AC/DC, Misfits, Pretenders, Pixies, Modest Mouse, Bright Eyes, Cat Power, Mogwai, John Fahey, Gravity, The Speed of Light, and possibly Dark Matter.

**What are some of the crazy/notable experiences the band has had?**  
We've played with KC Quilty a couple times.

**What has been your best performance so far?**  
The time that Okie played too fast, made Carrie's hands bleed, and she sprayed it all over him in a fit of anger.



# Guitar Knives

**Band Members:**  
Kevin Rustagi: guitar, drums  
Alex Arambula: lead guitar  
Tom Cervantes: bass, piano, guitar

**Website/Email**  
[www.theguitarknives.com](http://www.theguitarknives.com),  
[theguitarknives@mit.edu](mailto:theguitarknives@mit.edu)

**Where does the band practice?**  
The Burton Conner music room.

**How and when did The Guitar Knives get started?**  
Alex met Kevin during his orientation at some random Christian smores night (even though Alex is not religious). Kevin was wandering around the student center trying to rush freshmen for PBE, and Alex was looking for smores. The two hit it off and Kevin brought Alex to a jam session during Rush. Tom knew Kevin from FLP their freshman year. He learned bass his freshman year and started to talking to Kevin about it — this is when Kevin invited him to jam sessions at Burton Conner. After that, the three of us started jamming together, and officially became The Guitar Knives early March 2009.

**Band's influences?**  
Kevin — Weezer, Jet, Boston.  
Alex — U2, Kings of Leon, The Killers.  
Tom — The Red Hot Chili Peppers, Queen, Parliament, and Funkadelic.

**What are some of the crazy/notable experiences the band has had?**  
We tend to take field trips as a band. We took one to a U2 concert and were about fifteen feet from Bono; it was pretty inspirational. It was a crazy experience, and our car almost got towed, but that was the point when we saw where the top of the top was.

**What has been your best performance so far?**  
October 16, 2009. We were playing in the Mez. Lounge in an LMC show, and we had just finished writing out last song the day before the show (it's practically tradition: we always finish a new song the 48 hours before we perform). The song is called "Get Away." When we started to play it, everyone started dancing and kept dancing for the rest of the concert. It made us feel awesome that everyone was grooving with us.

**How did you guys decide on your band name?**  
So Kevin has been trying to think of anagrams of his name since high school and apparently didn't know that the internet could do this for him. One day he was working out with the MIT ski team and thought of the "guitar knives." He loved it and was thrilled when he realized that it was a perfect anagram of his name. The band had been searching for a band name, and Kevin pitched the idea to them under the guise that it was a really cool name and the domain name wasn't taken. After he admitted the anagram part and since Alex and Tom didn't mind, the name stuck.

# Technicolor



**Band Members:**  
Ari Miller: keyboard, vocals  
Robert Boyd: vocals, bass  
Paul Jaffe: drums

**Website/Email**  
[www.facebook.com/TechnicolorBand](http://www.facebook.com/TechnicolorBand)  
[technicolorband@mit.edu](mailto:technicolorband@mit.edu)

**Where does the band practice?**  
A private location.

**How and when did Technicolor get started?**  
Technicolor started in January 2010. The three of us had jammed together many times before, and with a little free time over IAP, we began to experiment with writing songs to complement our different musical styles. With the hope to create a dance-party-inspiring live performance, we kicked it into high gear and cranked out six songs by the end of the month, finding our sound and inspiration along the way.

**Band's influences?**  
Isley Brothers, The Brothers Johnson, Star Wars, Blade Runner, Moving Units, The Rapture, Stevie Wonder, Tower of Power, Funkadelic, Snarky Puppy.

**What are some of the crazy/notable experiences the band has had?**  
In February, we played with Gentlemen Hall in the stage room in Beta's Annex. It was a killer show and we had a great time dancing and sharing the stage with GH. Those guys know how to get people dancing! We also had an amazing time playing at the 2010 LMC Battle of the Bands over CPW. The highlight was definitely when Tim the Beaver crowd-surfed during our last song.

**What has been your best performance so far?**  
Favorite, that's a hard one. Playing in the Annex always has a great vibe, and

the Battle of the Bands was exciting, but we would have to go with the LMC show that we played in February. It was our first time performing on campus and the crowd was great.

**How did you guys decide on your band name?**  
We wanted a name that would communicate our disco-funk style while still sounding extremely cool. Picking a name was quite hard. We chose Technicolor because it not only conveys our vibrant sound, but also relates to the techie side of our performances. Our live set-up includes two computers, a MIDI controller, a MIDI keyboard, an analog synthesizer, trombone, bass, drums, and cables (lots of em).

# BANDS OF MIT



# Supa Dupa

**Band Members:**  
Barry Kudrowitz (orange): guitar, organ, vocals, percussion  
Martin Skelton (yellow): accordion, trumpet, melodic, bells, vocals, drums, pan flute, tin whistle  
Bennett Chaney (green): double bass, vocals, guitar  
Dennis Miaw (red): drums, vocals  
Paula Te (purple): violin, vocals  
*past members that recently moved to California:*  
Lucas Hernandez Mena: percussion, bells, guitar, vocals, mandoline  
Conor Lenahan: drums, guitar, harmonica, vocals

**Website/Email**  
[www.supadupasound.com](http://www.supadupasound.com)  
[supadupa@mit.edu](mailto:supadupa@mit.edu)

**Where does the band practice?**  
In Barry's basement in Cambridge.

**How and when did Supa Dupa get started?**  
Supa Dupa began as a band called Off White Noise from Orlando Florida. In 2008, they underwent a makeover, started wearing rainbow costumes, new members were added, they experimented with new instruments and style, and ultimately changed names. There were a variety of members of the past two years and at one point there were ten members in the band including two violinists, a horn section and a clarinet. The majority of the members are MIT students or MIT alum.

**Band's influences?**  
We seem to be influenced a lot by eastern european music which is strange because none of us are

eastern european... our songs just seem to have that feel. I would describe it as baroque nerd rock. I can name a few artists that I think we can relate to: Decemiberists, They Might Be Giants, Sufjan Stevens, B-52s, Talking Heads, Belle and Sebastian, Fountains of Wayne, The Smiths, Gogol Bordello, The Boy Least Likely To, Man Man.

**What are some of the crazy/notable experiences the band has had?**  
We opened for Michel Gondry and Mia Doi Todd and Bjork was in the audience! Thank you to the Council for the Arts for organizing that event. We also try to play shows with MIT a cappella groups and we played three shows with Resonance including the Rolling Stone Rockus Battle of the Bands.

**What has been your best performance so far?**  
Our CD release show with Electric Laser People, Polski Fiat, and Chris Bell was quite good.

**How did you guys decide on your band name?**  
This was hard. We almost were "Interobang!?" We wanted something fun that would be easy to remember.

Photography and interviews by Monica Gallegos  
Layout by Connor Kirschbaum



# China Care Dumplings Brunch

(General Body Meeting)

This **Saturday**, *McCormick Country Kitchen, 12pm*

Interested in traveling to China and Taiwan?

Want to help Chinese orphans?

Come find out how to join a committee and make a difference!



On drop date, pianos fall like rain



VIBIN A. KUNDUKULAM—THE TECH

**It's a bird, it's a plane, it's a...piano?** As a Baker House tradition on drop date, President Andy Wu '12 released the cumbersome musical instrument off the roof into the courtyard on Thursday evening.



MICHAEL YU—THE TECH

**After falling more than six stories,** nothing remains of the piano except a jumbled mess.

**LEGAL COUNSEL**  
MIT students, family, employers and start-ups seeking U.S. legal counsel, campus or office consultation. Call:  
James Dennis Leary, Esq.  
321-544-0012

**How Do You Measure the Growth of A Child?**

Unfortunately for children living in some of the poorest countries in the world, it takes more than fading marks on a wall.

Childreach, one of the oldest and largest child sponsorship organizations, measures growth by the number of hospitals, wells for clean water, and self-help programs we build in partnership with the proud families and communities where our sponsored children live.

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Funded by: GSLG, Graduate Student Council, Council for the Arts, De Florez Humor Fund, Cmte on Race & Diversity, GSC Off-campus Subcommittee, Postdoctoral Advisory Council, GSC Diversity Task Force, Eastgate & Westgate Com. Assoc.

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*What's going on at Kresge today?*

**Habitat's Campus Build!**

- Watch the cardboard house competition
- Build a handicap ramp



[habitat.mit.edu](http://habitat.mit.edu)

**Solution to Crossword**  
*from page 8*

A	R	C	A	D	E		E	Y	E	H	O	L	E	S	
T	H	A	N	E	S		M	A	N	A	L	I	V	E	
H	E	R	O	I	C		E	N	G	R	A	V	E	S	
L	O	A	N	S	H	A	R	K		I	N	E	R	T	
E	L	M		T	E	N	S	E	D		D	O	S	E	
T	O	E	D		W	O	O	E	R	S		N	O	T	
I	G	L	O	O		A	N	S	E	L	M				
C	Y	S	T	I	C			D	E	A	L	E	R		
				E	L	E	V	E	N		D	I	A	N	E
A	M	T		Y	E	O	M	A	N		N	U	D	E	
B	A	R	B		S	U	P	P	E	D		S	A	N	
S	N	O	O	T		C	R	E	P	I	T	A	N	T	
U	N	C	L	O	T	H	E		A	V	E	N	G	E	
R	E	H	A	S	H	E	S		L	E	A	N	E	R	
D	R	E	S	S	E	R	S		I	D	L	E	R	S	







**Elect a Recent Graduate to Serve on the MIT Corporation**  
<http://alum.mit.edu/about/elections/corpballot>

Polls are now open to elect a recent graduate to a five-year term on the MIT Corporation, the Institute's Board of Trustees. Polls Close: April 30, 2010, 11:59 PM (EDT)

**Why Vote?** This annual election gives you an opportunity to ensure that recent graduates have a voice in the governance of MIT.

The Corporation Screening Committee has selected seven (7) candidates to place on the ballot.

Michael A. Bennie '10	Sarah Johnson PhD '08	Ali Wyne '08
		
Oladapo (Dapo) Bakare MBA '10, ESD '10	M. Brendan McCord '08	Wendi X. Zhang '09
		
Martin F. Holmes '08		
		

**Eligible Voters:** Those who received an MIT undergraduate or graduate degree in 2008 or 2009 and prospective 2010 graduates may vote.

**Please note:** The MIT Alumni Association has sole responsibility for promoting the election to eligible voters. Candidates and eligible voters should NOT campaign on behalf of any candidate. The only sanctioned forms of campaigning are the candidate profiles and posters available to eligible voters on the ballot Web site  
<http://alum.mit.edu/about/elections/corpballot>

**Contact:** Sarah Hendrick, MIT Alumni Association, [hendrick@mit.edu](mailto:hendrick@mit.edu)



DAVID CHEN—THE TECH

**Felicia Zhang and Taylor Toth, junior national champions in pairs skating,** perform at An Evening with Champions, Harvard's annual ice skating charity event last week.



FENG WU—THE TECH

**Minister Patrick Delatour, Chairman of the Presidential Commission for Reconstruction and Minister of Tourism of Haiti,** spoke to the MIT community about plans for the reconstruction of Haiti Friday morning in 6-120. Minister Delatour reviewed the actions and vision of the Haitian government post-earthquake.

This Spring WEEKEND...

THE WORLD IS COMING TO MIT!!!

Food, music, LIVE PERFORMANCES, and  
MORE FROM AROUND THE WORLD

iFair

Friday, April 23

10am-5pm, KRESGE LAWN

Brought to you by THE ISA and LEF





GREG STEINBRECHER—THE TECH  
Early Wednesday morning, **hackers installed a bottle of “MIT Edition” Axe body spray** on the ledge of Building 10. The hack was apparently a comment on the recently passed Undergraduate Associate Senate bill to provide deodorant to students the reading room during finals week.



DAVID CHEN—THE TECH  
**Jacob T. Bredthauer ’11 of the MIT Cross Products** closes out the Break it Down Boston concert last Saturday night. Ten Christian acapella groups from New England schools performed at the event.



## Earn up to \$2864/month this summer!

### With the ISN/ARL Summer Intern Research Program \*

The MIT Institute for Soldier Nanotechnologies is focused on basic research to dramatically improve the survivability of the soldier and first responders.

This summer program provides opportunities for MIT students to conduct science and engineering research at state-of-the art Army research facilities working under the direction of Army scientists.

As a summer intern, students:

- Gain valuable research experience
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- Become part of a team that provides new, life-saving technologies.

If you are interested in learning more about this program the first step is to register at the website:

<https://isn.mit.edu/internship/index.php>

If you have questions about this program, or experience difficulty using any features on website, please contact Marlisha McDaniels- [mmcd@mit.edu](mailto:mmcd@mit.edu) or the ISN Headquarters, NE47-4<sup>th</sup> floor 617.324.4700.

**\*The Army Lab provides the intern's salary, which typically ranges from \$2280/month to \$2864/month depending on class year. Under certain circumstances the ISN can provide the intern with a supplement of up to \$1500 to defray costs of local accommodations and travel.**

# Teaching Excellence

# CALL FOR NOMINATIONS

## James A '45 and Ruth Levitan Award for Excellence in Teaching

All (non-visiting) instructors in undergraduate and graduate subjects taught in the School are eligible (faculty, lecturers, TAs). Students are invited to make their nominations via email to [shass-teaching-award@mit.edu](mailto:shass-teaching-award@mit.edu).

Nominate by  
Friday, April 30, 2010

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Nominations should include the following information:

- Your name
- Your email
- Name of the teacher nominated for the award
- Subject(s) taken with the nominee
- Why you are nominating this teacher

Please consider and comment on

- Teaching effectiveness
- Approachability
- Responsiveness to students’ progress
- Impact

# New MIT chairman

## Reed, MIT alum & former CEO, to lead Corporation

Reed, from Page 1

bership Committee. "John Reed would bring tremendous strengths to the role of MIT Corporation chair. He understands and appreciates deeply the values of the Institute, and through his career he has demonstrated a degree of breadth, creativity, foresight and global scope that will be enormously useful to MIT in the years ahead," said MIT President Susan Hockfield in a statement to the MIT News Office.

During an interview with *The Tech*, Reed spoke of his enthusiasm for MIT as he looks forward to becoming more involved with the MIT community.

*The Tech:* From your view, what role does the MIT Corporation play?

*John Reed:* We are responsible for the total Institute in a legal sense. The Corporation has the legal responsibility to make sure the Institute is well-managed and financially solvent and fulfills its mission. The Corporation is made up of...people, many of whom were students at MIT. We have the ultimate responsibility to make sure MIT fulfills its mission.

*TT:* What do you think is the most important role of the Corporation chair?

*JR:* The most important thing is to make sure the Institute is functioning well. We have an elaborate set of visiting committees...one for each department and one for the major laboratories and things like student life and so forth. That's a mechanism for the Corporation to be informed about what's going on...how happy are people, how effective is the teaching, and so on....

I'm just going to be a part of the conversation...and work very closely with the Corporation and...the president.... My role is simply to make sure that everything is working smoothly. There are always little problems that you have to deal with and you have to make sure you respond properly to them.

*TT:* What is your mission for MIT and the MIT community?

*JR:* I don't have any specific plans. I'm going to get engaged. Hopefully

I'll be elected in June and then I'll start participating in the management. Things are pretty quiet over the summer so I'll have a chance to get oriented and talk to a lot of people and meet a lot of people. Come September, when school starts again, it becomes more active.

*TT:* How important do you think student involvement is?

*JR:* I think it's important because it's vital to the Institute that the corporation function properly and that the meetings be productive and that the visiting committees do their job...Students are actually quite involved. First of all, they participate with the visiting committees, which are very important. When the committees have their meetings, they always meet with both undergraduate and graduate students...That input is extremely important to the whole process... Then we have on the corporation some recent graduates, because obviously someone like myself... isn't very current with what life's like for the existing students... [We] make sure that all of the voices from the community are heard, but we do care an awful lot about the current students.

*TT:* What do you see as the biggest challenges facing MIT?

*JR:* Right now my guess is the challenge in one way is how to cope with the fact that the world is changing. The frontiers of science and engineering are moving...and we have to make sure we're right at the forefront.... We have to understand what globalization means in terms of research and education. And then, there's always the financial challenge. Having enough money so that MIT can provide the right kind of environment for both education and research.

*TT:* What do you look forward to the most for serving as the Corporation Chair?

*JR:* What I really look forward to is being more deeply engaged with the Institute. I was an undergraduate there 50 years ago and that's a long time. I love the place. It's a wonderful institute, and it made a big difference in my life. I'm looking forward to being more engaged and more involved and useful.



LOGAN P. WILLIAMS—THE TECH

Jeffrey Y. Warren G, Nathan Cook, and John P. Murphy '10 prepare to launch a helium balloon from McDermott Court on Tuesday as part of **Microdot, a temporary autonomous nation** bounded by the circular lawn. The balloon was used to take photos and create a map of Microdot.



BRIAN HEMOND—THE TECH

Cimarron J. L. Wortham G adjusts the rear derailleur of a bicycle brought to a free bicycle repair clinic held on the steps outside of the Stratton Student Center on Thursday. The clinic, held every year on Earth Day, was organized by Katherine E. Potter G and staffed with volunteer bicycle mechanics.

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MICHAEL YU—THE TECH

Singer-songwriter and YouTube star Kina Grannis performs during the 13th annual AAA Grains of Rice culture show last Saturday in Walker Memorial. Several MIT, Harvard, and Boston-based groups performed a piece of Asian culture to a full audience in Walker Memorial.

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# Gates urges new generation of innovators at MIT

Gates, from Page 1

his work. He said his generation was not as aware as people are today of problems like poverty. Only until he was in his forties, Gates said, did he start to realize, for instance, “how tough health conditions were.”

Gates outlined two of the world’s most pressing problems, childhood mortality and education, to illustrate the volume of work that needs to be done.

Since 1960, he said, the number of children under five who died each year fell from 20 million to nine million. “By far, most of that [reduction] is vaccines,” Gates said. Despite their benefits, he pointed out that vaccines get less than one percent of medical spending.

For many countries, childhood deaths are still a huge problem. Gates illustrated that point with a factoid: If you take all the people in the U.S. who were born in the same year you were born, a quarter of them will have died by the time you turn 60. But in the poorest countries, a quarter have already died before age four.

Gates also emphasized the importance of education and the grave challenges that the U.S. faces. “I was absolutely blown away at the statistics,” Gates said. “I had no idea of how poorly the education system in the U.S. is working: Over 30 percent of kids drop out of high school. If you’re a minority, 50 percent drop out of

high school.”

He identified teaching quality as one aspect of education where the potential for improvement is huge — if only researchers fully understood what makes a good teacher.

Another way to improve education is through technology. Here, Gates said, MIT has been a leader with OpenCourseWare.

“I’m a super-happy user,” he said. “I re-took physics with Walter Lewin, I took Professor Sadoway’s course and loved that — I recommend it to everybody.” Of the 33 courses that have video, Gates said he’s taken 11.

But Gates made it clear that projects like OCW are just the beginning. He envisions a system that brings together the best lectures and course materials, and blends them with interactive elements and user feedback and possibly the opportunity for accreditation.

“Right now it’s all pretty fragmented,” he said. “This can improve very substantially.”

Ultimately, Gates said he did not know how exactly to attract “bright minds” to these challenges, but asked the audience to imagine such a future, in which education policy and agricultural technologies are debated with the same fervor as March Madness.

“If we really did that,” he said, “we might delay the invention of a new financial product by a few years, [and] we might even delay that new bald-

ness drug by a few years, but if it helps on the important problems, I think it’s a good thing.”

After his speech, Gates invited students to pepper him with questions. Matthew R. Denman, a graduate student in Nuclear Engineering asked about the future of nuclear power, referencing Gates’s startup TerraPower, which has a design for a new kind of reactor that uses depleted uranium, not enriched uranium as most plants do.

Gates was firmly pro-nuclear. He criticized what he called “cuddly” technologies like wind and solar for requiring large amounts of land and for relying on intermittent sources of energy. Gates said. He called for more innovation in nuclear power plants. “I love nuclear, it does this radiation thing that’s tricky, but...” he said, to audience laughter.

Gates was also asked how it felt to be the richest person in the world.

“Well the marginal return for extra dollars does drop off,” he said. “I haven’t found any burgers at any price that are better than McDonalds,” he said. He admitted that he did enjoy some of the perks of wealth, like private air travel, though he added that after a “few million or something, it’s all about how you’re going to give it back.”

## Student innovation displayed on project tours

Before the speech, Gates discussed



JUSTIN KNIGHT

As Bill Gates looks on, Christopher A. Moses ‘10 explains Sana (formerly Moca), an organization that helps connect patients, doctors and nurses using cell phone technology.

development issues with professors at a private meeting. He also attended a poster session in the Gates tower at Stata, where seven students presented their development projects.

Christopher A. Moses ‘10 showed off Sana (formerly Moca), a software system that lets nurses send diagnostic information to doctors using camera-equipped cell phones. Moses said he was impressed by Gates’s knowledge of development issues. “It was great hearing his feedback, it’s not all the time you get someone, because he’s so well versed in all of these projects,” he said.

Ritu Tandon ‘10 developed a web-

site that bridges OpenCourseWare and syllabi from Monterey Tech in Mexico, allowing students to supplement their classes with materials from MIT. During her presentation, Gates asked, since so few OCW courses have video content, whether linking to plain lecture notes would be as useful. “On OCW, it’s 33 courses out of 1,981 that have the full videos right now,” he said, rattling off the numbers by heart.

Later, Tandon remarked, “I was expecting it to be a lot more intimidating, but he was so laid back. It was like having a conversation with any ordinary person.”

# In interview, Gates explains ‘creative capitalism’

Gates interview, from Page 1

also Stanford — and then just the questions I get, they’re very interesting. There are people: what are they worried about? You know, what are they disagreeing with? Or what do they see as an opportunity? But you know, we’re talking about what I call important problems and how we can get the best minds working on those problems. And I’m congratulating universities like MIT. You’ve done OpenCourseWare, you’ve got your energy initiative, you have a course on world poverty now, which is a fantastic thing. We have a lot of steps in the direction, but how do we ramp that up even more? I’m starting a dialogue about that because I think it will make a huge difference to get minds like those who get to go to MIT even more involved.

TT: Right, and the question that you kind of left unanswered during the talk is “how does that happen?”

BG: Yeah, and I don’t know the right answer. There are a lot of best practices that MIT and a lot of others have started, but what other ideas are there? And what are the barriers that hold people back? Is it awareness? Is it the economics? And how do we change it?

TT: This morning, you met with faculty, and you saw some student projects from the PSC, and from D-Lab. What did you learn? What was really interesting to you?

Gates: I saw lots of good projects, and I saw things that really relate to the developing world. What cheap reliable instruments should people have in clinics in the developing world? I saw people working on that. There’s some studies on malaria policies we’re trying out that students here are looking at the different varieties of how we might get the medicines out there in a better way. I saw six or seven projects, each of which I thought were quite strong.

TT: Did anything surprise you?

BG: Well, I had known those in advance. You know, there’s some like how can we use the cell phone for health care things. You know, nothing has come out of that yet, and this idea of what really can work in these conditions verses what’s the technology. That match up — you know and I keep thinking about how we can make people more aware of what the needs are and what’s practical because some of the ideas may not catch on. But there were really good



JUSTIN KNIGHT

A group of MIT Gates Millennium Scholars assembles to meet Bill Gates during his visit to MIT on Wednesday.

ones. A lot of them had been out to really understand the tough delivery conditions.

TT: You’ve been on quite a journey, going from running Microsoft to chairing one of the world’s largest philanthropic organizations. What do you know now that you wish you had known when you were our age?

BG: Well certainly I had no awareness of the depredations of poverty. I didn’t really understand the health issues, I didn’t understand the governance issues, the lack of infrastructure. It just wasn’t a focus for me. I was doing software and fortunately that has had positive effects, but I wish I had been more aware; I wish I had been able to take a course like the world poverty course and know about vaccines and know what a magical intervention those are.

TT: And having that knowledge, do you think your path would have changed?

BG: Not my path in some dramatic way. I would have been giving money to these causes a little bit earlier than when I started really in 1999, the serious philanthropy. And I would have done more. Now some of these projects take a long time, like a malaria vaccine, so you want to get it going. And the research phase, the early phase, is not as expensive as the trial phases, so I feel good that I did in my forties even when I was still full time at Microsoft. I was lucky enough to bring some great scientists in. Then when I moved to full time, the foundation wasn’t from scratch. We already had ten years of malaria vaccine work, and we already had a great staff of people, so I did some overlap — but I would have done more of that.

TT: You’ve spoken a lot about the

importance of innovation and of taking chances on high-risk, high-reward projects — like the malaria vaccine — but there are lives that can be saved right now with simple interventions like bed nets and irrigation, so where do you find that balance?

BG: In terms of lives saved per dollar, there are a lot of things that we should be delivering, including some existing vaccines and new vaccines that we get here in the US — Rotavirus and Pneumococcus — all the kids in the US get those, but no kids in the developing world are benefiting from those, yet they have the disease pertinence, not, those things, aren’t as impactful in the medical environment that we live in. Those need to get out there. There are very few things that are as effective as vaccines. Bed nets are quite effective.

Agricultural interventions are less about health but are more about nutrition which has this huge effect on learning ability and freeing up people from subsistence labor, just on small holdings. So the agricultural things — there are some things there, but we’re going to have to invent to really make a dramatic difference. We can’t just take the tools that we have today. Our foundation tends to fund more of the upfront discovery work, and we’re a partner in delivery, but governmental funding is the biggest.

Take like delivering AIDS medicine: We did the pilot studies in Botswana to prove that you could deliver ARBs [Angiotensin II receptor blockers] in Africa and then PEPFAR [The US President’s Emergency Plan for AIDS Relief] the US government program, which is five billion a year, which is way more than our whole foundation, just that one US govern-

ment help program, just one country, came in and scaled up based on some of the lessons from that. With the vaccines, we fund, maybe fifteen percent. This government delivery system organization, whereas on the upstream, you know, malaria vaccine research would be a substantial percentage of that. So we’re playing to our strength, which is picking teams of scientists and sticking with them for over a decade — a decade of failures and successes.

TT: At Davos in 2008, you spoke of this idea of “creative capitalism,” which is your vision of corporations working to deliver innovations to those who need it, not necessarily just those who can pay. Could you explain how this works in practice? Some have said that this is an overly optimistic view of how business works.

BG: Well certainly the large companies have responded quite well, and we’ve even done within industries an independent report that will take say the pharmaceutical companies and say are they doing good work in these areas. And that’s been a spur for them to look a little bit. We’re not saying that they should tilt all their activities. If we can get four percent to the best innovators working on these diseases that aren’t as remunerative, that can make a huge difference. And in many cases, that will be up from zero percent. So we’re not asking them to completely go against the economic incentives they live under. We want them to thrive and be successful, and it’s actually a little unfortunate that the drug industry discovery rate has been low these last eight years. So pharma budgets actually are going down. Now vaccines is a subset of that, and actually has gone well. Some of these new vaccines are quite profitable for these companies. We are seeing an increase in that, which is for many of our things, it is the magic piece.

TT: Right, because this is sort of the same message that you’re sending to students as well, isn’t it?

BG: Right, so this creative capitalism is the message at the institutional level for businesses. And what I was talking about today is to get individuals to think about what motivates them: what would have drawn them in, why is it that these issues have appealed to them or have not appealed to them. And we need that individual interest in doing these things and then those institutional opportunities. So creative capitalism will let the

people go out and get a great job and work on these things. And you really want those things to be in balance. You know, I wouldn’t want the pharmaceutical companies to say “Hey, nobody wants to work on this stuff.” That’s not the problem. I think the institutional side will be a limiting factor.

TT: Your foundation has an endowment of over 33 billion dollars — is it important to you to invest that money in socially responsible corporations? For instance, the LA Times reported in 2007 that some of the money for the foundation is invested in papermills and oil companies that pollute and harm the health of the people that you’re trying to benefit.

BG: Yeah, we actually have securities from a country that’s at war — we have US treasury securities in our foundation portfolio. Oh, it’s awful. You know, those guys, they polluted, there’s a lot of things I think they’ve done wrong. Now in terms of have we sort of decided to set up a judicial system that decides which car company, which oil company that kind of duplicates the laws of the various countries. No, we — we’re not doing that. We don’t invest in Sudan, and we don’t invest in tobacco companies and things like that. But when you take your resources and say “okay I want to score companies,” you have to say are you saving lives? If, take for example, the fact we don’t invest in tobacco companies: I would not claim to you that that has any effect at all. Now we fund anti-tobacco, anti-smoking things in a big way. We encourage the taxes to go up in China, they did that; we’re funding all these things in Africa. That’s where you save lives.

The fact that we put our capital in those companies, you know some people might not feel good about it, but it doesn’t save...that’s not where it is. No, we have not created this scoring system saying “should we own those treasury securities?” or not. Our expertise is in vaccines, it’s in education, and it’s in working with companies to get them to put energy in. In terms of getting corporations to be positive agents of change, I’d say we’ve done more of that than anyone. And they respond quite well, and that’s a million times more powerful per dollar then setting up this scoring system of where we put our money; we wouldn’t have any direct effect there. In egregious cases, yes, but in general, that’s not our role. That’s more of a governmental role.

# Coop Student Board of Directors Election Update

The following student Coop members are candidates for the Board of Directors for the 2010-2011 academic year.

**MIT Graduate and Undergraduate Students:**

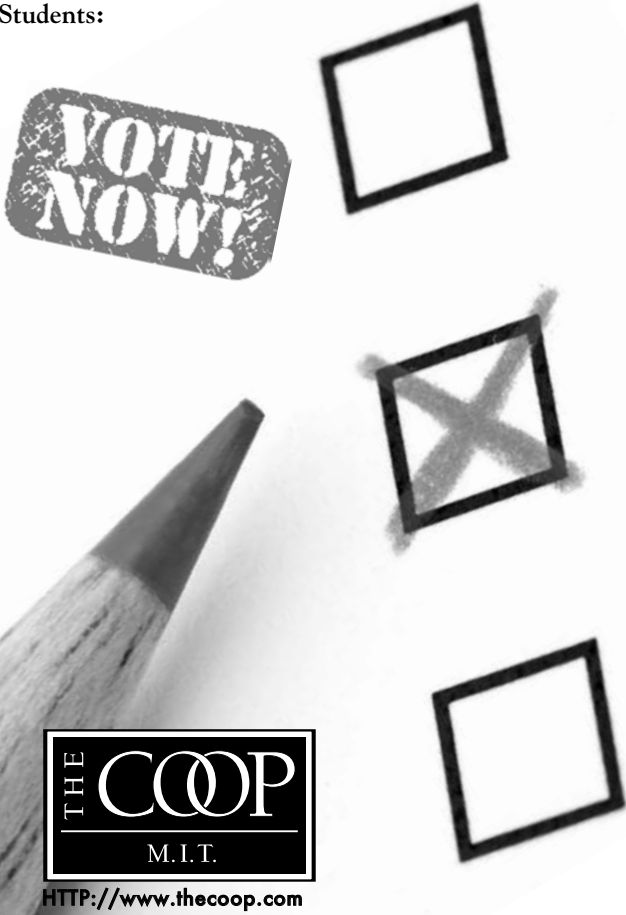
- Tanguy Chau PhD/MBA 2011
- Lorena Lee-Houghton PhD 2011
- Christina Johnson 2011
- Jim Morrison TPP 2011
- Paul Romano PhD 012
- Chris Yoon 2012

**Harvard Undergraduate Students:**

- Lauren Dai 2013
- Melissa Oppenheim 2012
- Caroline Quazzo 2012
- Edmund Vincent G. Soriano 2011
- Lianne C. Yang 2012
- Danni Xie 2012

**Harvard Graduate Students:**

- Aaron Chadbourne JD/MBA 2011
- Kyle Ensley MPP 2011
- Justin Kliger JD 2011
- Jessica Rabl MBA 2011



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April 5 Through April 26



FENG WU—THE TECH

The Mark Wood Experience, featuring **Mark Wood, former member of the Trans-Siberian Orchestra**, was the main act of Concert for a Cure hosted last Sunday at Club Oberon by MIT's Sigma Phi Epsilon fraternity and Harvard's International Coalition of College Philanthropists.



MICHAEL YU—THE TECH

**Lamine Touré of MIT Rambax, a Senegalese drumming ensemble**, leads a group of more than thirty MIT students during the group's concert in Lobdell on Sunday.

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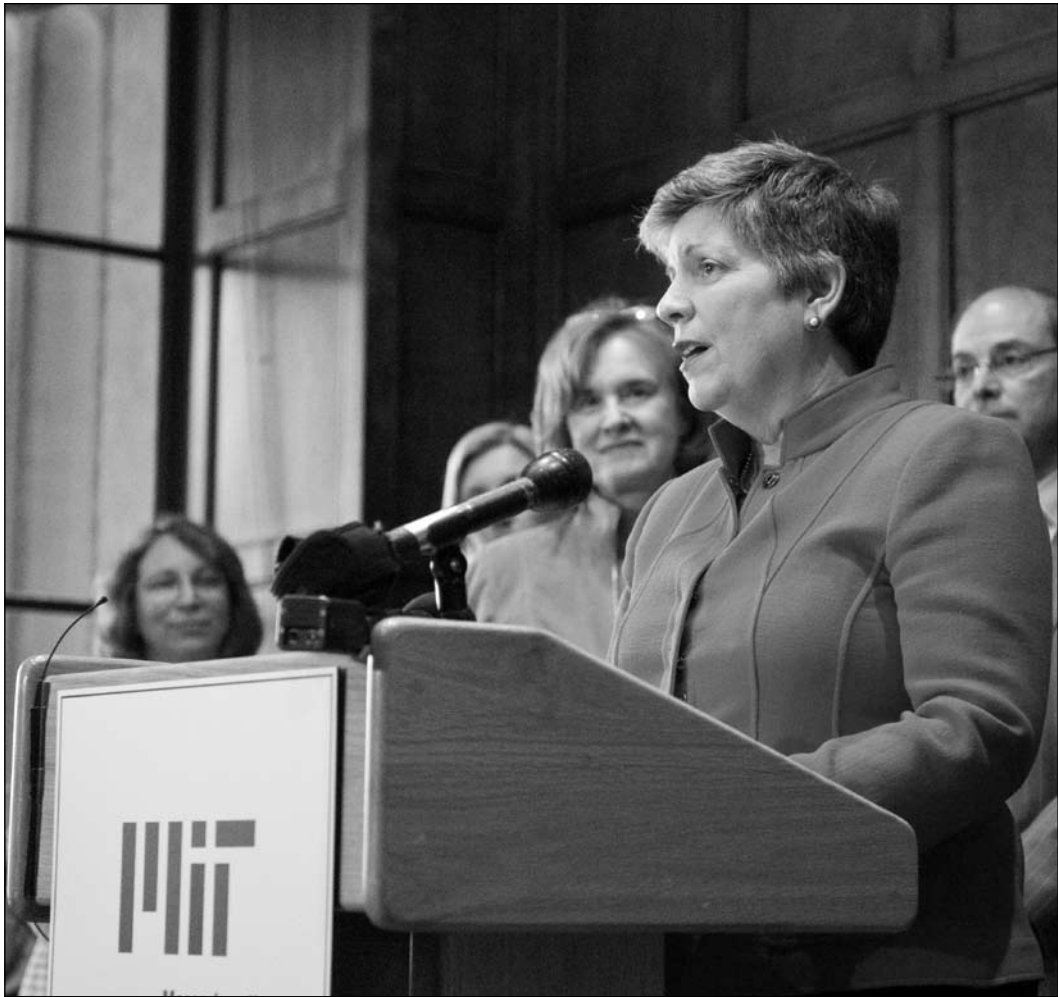
Kresge BBQ Pits, Sat. April 24th, 1-4pm

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DAVID M. TEMPLETON—THE TECH  
Secretary of Homeland Security **Janet Napolitano** speaks in the Emma Savage Rogers Room (10-340) last Friday. Napolitano met with the heads of Boston-area universities at MIT to discuss how national security can be aided by higher education.

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Solution to Kenken

from page 9

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6	5	2	3
4	1	6	2
3	6	5	4
2	3	4	1
5	2	1	6
1	4	3	5

Solution to Sudoku

from page 9

4	2	5	7	3	1	6	9	8
8	7	1	9	4	6	3	2	5
3	9	6	5	2	8	4	1	7
6	3	4	1	8	5	9	7	2
2	8	7	4	6	9	5	3	1
5	1	9	2	7	3	8	6	4
1	4	8	6	9	2	7	5	3
9	5	3	8	1	7	2	4	6
7	6	2	3	5	4	1	8	9

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# Markowitz is 47th

## Several from MIT ran in Marathon, and some placed

Marathon, from Page 1

and a half ahead of the previous best runner. In the women’s category, Teyba Erkesso of Ethiopia claimed first place, crossing the finish line in 2:26:11.

Top American woman finisher, Paige Higgins, ranked 13<sup>th</sup> place, and the top American men finishers, Ryan Hall and Mebrahtom Keflezighi, ranked 4<sup>th</sup> and 5<sup>th</sup> place in the race, respectively.

Noting the beautiful weather, “It was a really fun race,” Markowitz said. “It was neat to have the crowd there — it was really exhilarating.”

Markowitz recalls his time at the race as being “a lot of fun,” especially when he passed the Old South Church — church bells ringing — and the iconic cowbells of bystanders towards the finish line, waving in the air.

This was Marakowitz’s second year running the marathon, and he says that compared to last year “I didn’t do much differently.”

“I just stayed healthy. You don’t miss any training time. When you train regularly, it’s pretty easy to get injured, and I was lucky that I didn’t get injured,” he said.

But “I was happy it was over since it was so painful,” he said.

As advice to other runners, Markowitz said: “First of all you should get good running shoes. Build up gradually. You should be able to run 20 miles eventually.”

Also participating in “Marathon Monday,” except this time on the sidelines, Kathleen A Kraines ’13 was one of the many MIT students who

volunteered for the marathon by registering with a group of students at the Boston Marathon website.

“We just stood at the mile three mark. We stood there until the last runner of the marathon,” she said.

Another MIT graduate student who ran in this year’s marathon, Joe Robinson G, said, “I guess it really depends on what you are hoping to do. Some people just want to finish. Other people are really trying to finish with a high time.”

Robinson said that the Boston Marathon may be difficult to participate in, particularly for beginners, due to the time cut off requirements.

All of the contestants were required to qualify for standards set according to age groups; the constants had to meet the cut-off time with an official race time acquired at another race before being approved by the Boston Athletic Association to participate in the race.

According to Robinson, the BAA requires race times from other marathons within one-and-a-half years before registration.

This year’s marathon included runners, wheelchair competitors, and hand cyclists, featuring both elite and amateur athletes. The Boston Marathon began at Hopkinton and passed through both Wellesley and Boston College, and ended at Boston, by the Boston Public Library.

According to the marathon’s website, there is also a half-marathon that will be held in the fall of 2010, which Markowitz plans to run.



Graduate Women at MIT

Spring Kick-Off

April 26-30

Keynote, “The Evolution of Bias”

Freada Kapor Klein, an expert on workplace diversity relations, will describe implicit and explicit gender-related bias in academic environments.

“Negotiating Difficult Situations” Workshop \*\*

Toni Robinson, MIT Ombudsperson, will lead exercises demonstrating how to handle situations including negotiating credit, dealing with harassment, and negotiating attention from supervisors.

“Collaboration in Invention” Panel

Women in research and industry discuss the role of collaboration in their inventions.

“Life Choices: Work and Everything Else” Panel

Women in research and industry discuss the choices they have made regarding work/life division, marriage, and children.

Graduate Women Mixer \*\*

Come network with fellow graduate women! Sloan’s Lakshmi Balachandra will lead an introductory exercise on improvisational leadership.

Monday 4/26

5:30-6:30pm

46-3002

Tuesday 4/27

1:30-3 pm

66-168

Wednesday 4/28

6:30-8 pm

56-154

Thursday 4/29

6:30-8 pm

4-237

Friday 4/30

5-6:30 pm

Moore Room

6-321

\*\*RSVP requested at <http://gsc.mit.edu/gwamit/events/spring2010.html>



Graduate Women at MIT

<http://gsc.mit.edu/gwamit>

Event sponsored by



Graduate Student Council

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Saturday, April 24th • 2 PM - 5 PM

Coffeehouse Lounge (Student Center 3rd Floor)

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Serious depression strikes millions. Serious depression strikes indiscriminately. Serious depression is MOST dangerous when it goes unrecognized. That’s why it’s so important to always be aware of the threat of depression. And if your life is ever interrupted by a period of depression, remember that it is readily, medically treatable.

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Public Service message from SAVE (Suicide Awareness Voices of Education)

<http://www.save.org>

This space donated by The Tech

SCOREBOARD

Baseball		
Sunday, April 18		
at Clark University		L 3-1
at Clark University		W 11-5
Wednesday, April 21		
at Wheaton College		L 5-2
Men's Heavyweight Crew		
Saturday, April 17		
vs. Harvard & Princeton		2nd of 3
Men's Lightweight Crew		
Saturday, April 17		
vs. Harvard & Dartmouth		3rd of 3
Women's Lightweight Crew		
Saturday, April 17		
vs. Buffalo & Simmons		1st of 3
Women's Heavyweight Crew		
Saturday, April 17		
at Bucknell University		2nd of 2
Men's Lacrosse		
Saturday, April 17		
at Lasell College		W 5-1
Wednesday, April 21		
at Mass. Maritime Academy		W 12-3
Women's Lacrosse		
Saturday, April 17		
vs. Mt. Holyoke College		W 13-11
Thursday, April 15		
vs. Williams College		L 12-5
Tuesday, April 20		
at Babson College		L 18-5
Sailing		
Sunday, April 18		
N.E. Dinghy Championship		11th of 18
Oberg Trophy		8th of 16
Wick/Shrew		15th of 16
Softball		
Friday, April 16		
at U.S. Coast Guard Academy		L 8-0
at U.S. Coast Guard Academy		L 13-5
Men's Tennis		
Tuesday, April 20		
at Brandeis University		W 5-4
Wednesday, April 21		
at Clark University		W 9-0
Women's Tennis		
Saturday, April 17		
at Skidmore College		L 7-2
Sunday, April 18		
at Vassar College		L 9-0
Tuesday, April 20		
vs. Trinity College		L 6-3

ATHLETES' CORNER

Women's rugby wins Beast of the East

Last weekend, the MIT women's rugby team traveled to Portsmouth, RI to compete in Beast of the East, the largest collegiate rugby tournament in the nation. On Saturday, MIT won both seeding matches against Keene State and Mt. Holyoke. On Sunday, MIT moved up the bracket, winning the quarter-, semi-, and final matches against George Washington University, Southern Connecticut, and Holy Cross, respectively. The team showed much heart and perseverance playing through five matches with a very small roster and outscored their opponents by a total of 150-5. At the end of the weekend, MIT brought home a shiny, hard-earned first-place trophy.

— Kat Kononov, Team representative

Heavyweight crew takes 2nd in Compton Cup

Saturday morning on the Charles River, MIT's heavy-weight varsity men finished second in the Compton Cup held between Harvard University, MIT and Princ-

eton University. A year ago, Tech battled with Princeton for 2000 meters, edging them out for second place for the first time since 1975. This year, with a more inexperienced crew, the Engineers managed to repeat the finish, but had to rely on luck. On the windy, cold, choppy Charles River, Harvard and Princeton pulled away from MIT through the first half of the race. At the Harvard Bridge, Princeton hit a particularly high wave, causing an out-of-position oar to break the rudder cable. Out of control, the Princeton boat then took a sharp right turn, colliding with Harvard and breaking off Princeton's bow. Harvard was able to continue, beating Tech by a healthy margin of 26 seconds. The Tigers, however, was forced to stop and did not finish. MIT coxswain Rishi Dixit '12 steered the Engineers around the disabled Princeton boat drifting into their lane, and MIT and finished in a time of 6:19.

"We make our best moves when the other crew isn't rowing," remarked Coach Tony Kilbridge. "Next year we would like Harvard to stop rowing also."

On Friday, April 16, MIT's freshman heavyweight four raced two Harvard fours comprised of their second freshman squad. Tech placed second, finishing nine seconds out of first place and fourteen seconds ahead of third place.

The Engineers will race next in a "Battle of the Beavers" next Sunday against Oregon State University on the Charles River. Eastern Sprints rival College of the Holy Cross will also compete in that race.

— Lucas Goodman, Team representative



GREG STEINBRECHER—THE TECH

(left to right) Marie C. Mcgraw '12, Emma C. Jeffries '11, and Catey L. Harwell '11 of the women's lightweight crew team race early Sunday morning against Stanford. The Engineers lost both varsity races to the No. 2 ranked Cardinal.

UPCOMING HOME EVENTS

Saturday, April 24		
Sailing vs. Northeastern University		10:30 a.m., Charles River
Sunday, April 25		
Men's heavyweight crew vs. Holy Cross & Oregon State		9:15 a.m., Charles River
Sailing vs. Northeastern University		10:30 a.m., Charles River

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-Nick Day, CAMPUS CIRCLE

-Owen Gleiberman, ENTERTAINMENT WEEKLY

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